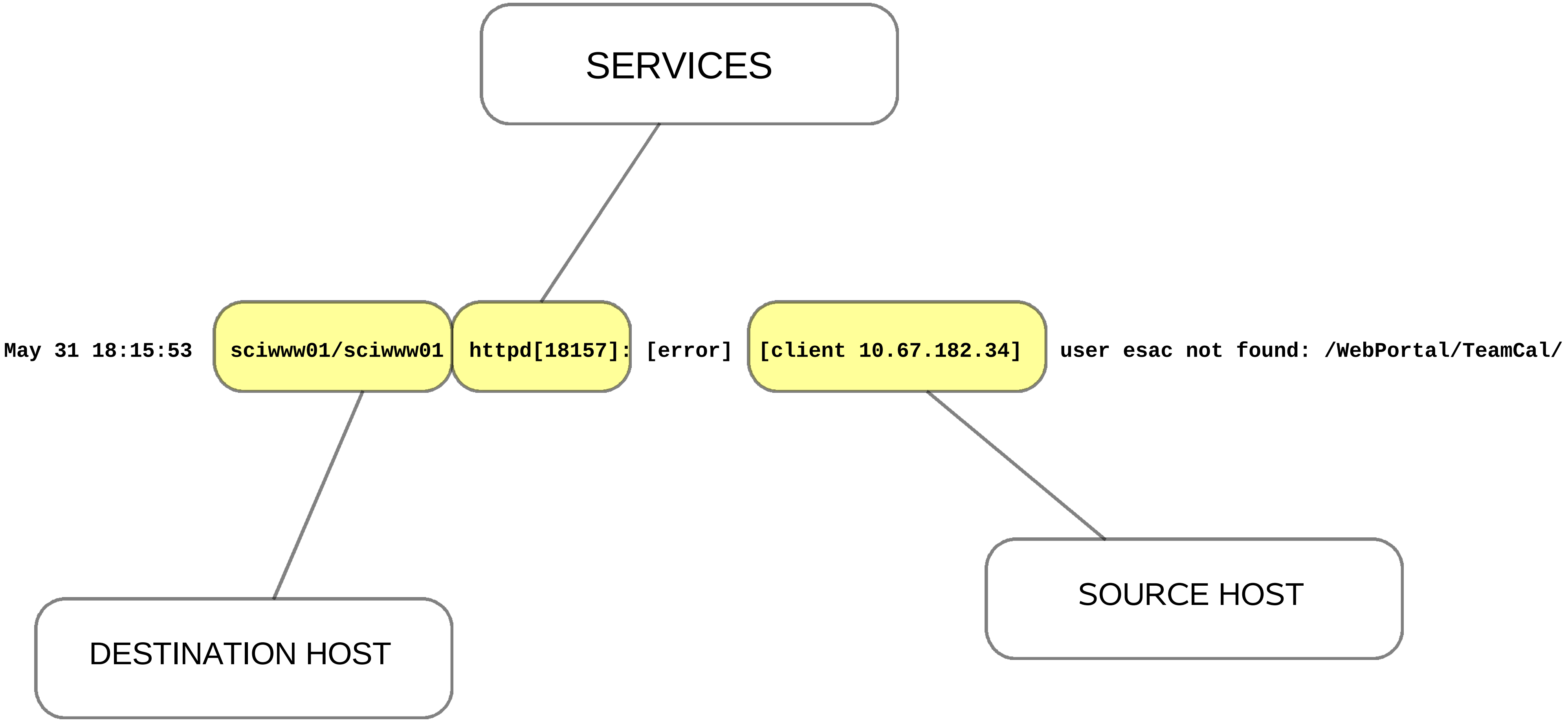
# ESAC Trainee Project

**Adolfo Vazquez, UCM**

## Security Scripts for the Computer Support Group

**Tutor. Ruben Alvarez (CSG)**

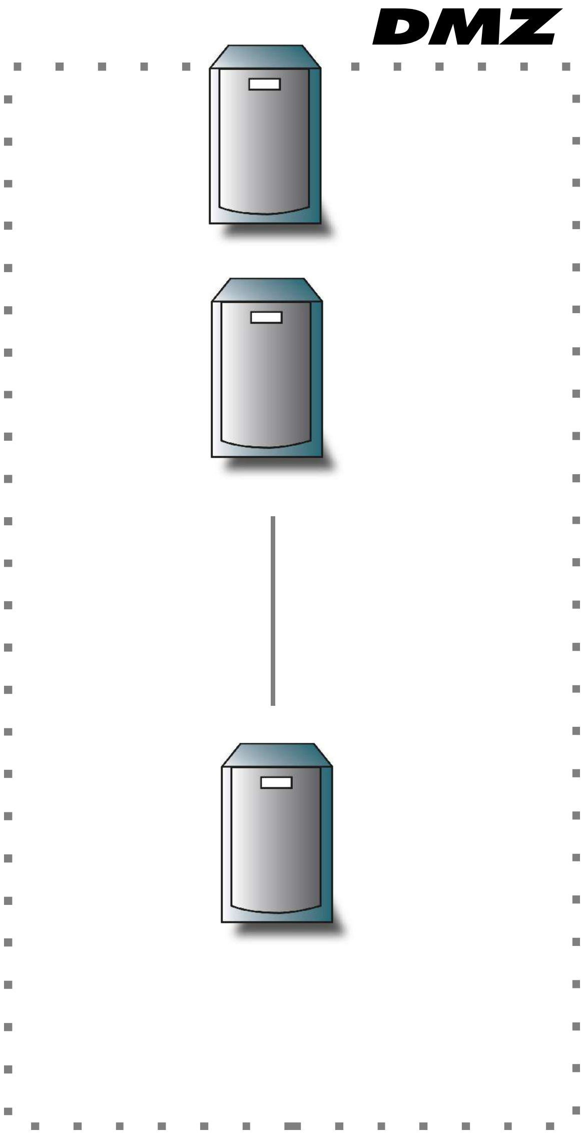


SERVICES

```
May 31 18:15:53  sciwww01/sciwww01  httpd[18157]: [error]  [client 10.67.182.34]  user esac not found: /WebPortal/TeamCal/
```

DESTINATION HOST

SOURCE HOST



CURRENTLY. ~ 50 SERVERS
FUTURE. +100 SERVERS

**LOG ANALYSIS**

**DIFF**

**FIREWALL!**

## ESAC CASE OF STUDY

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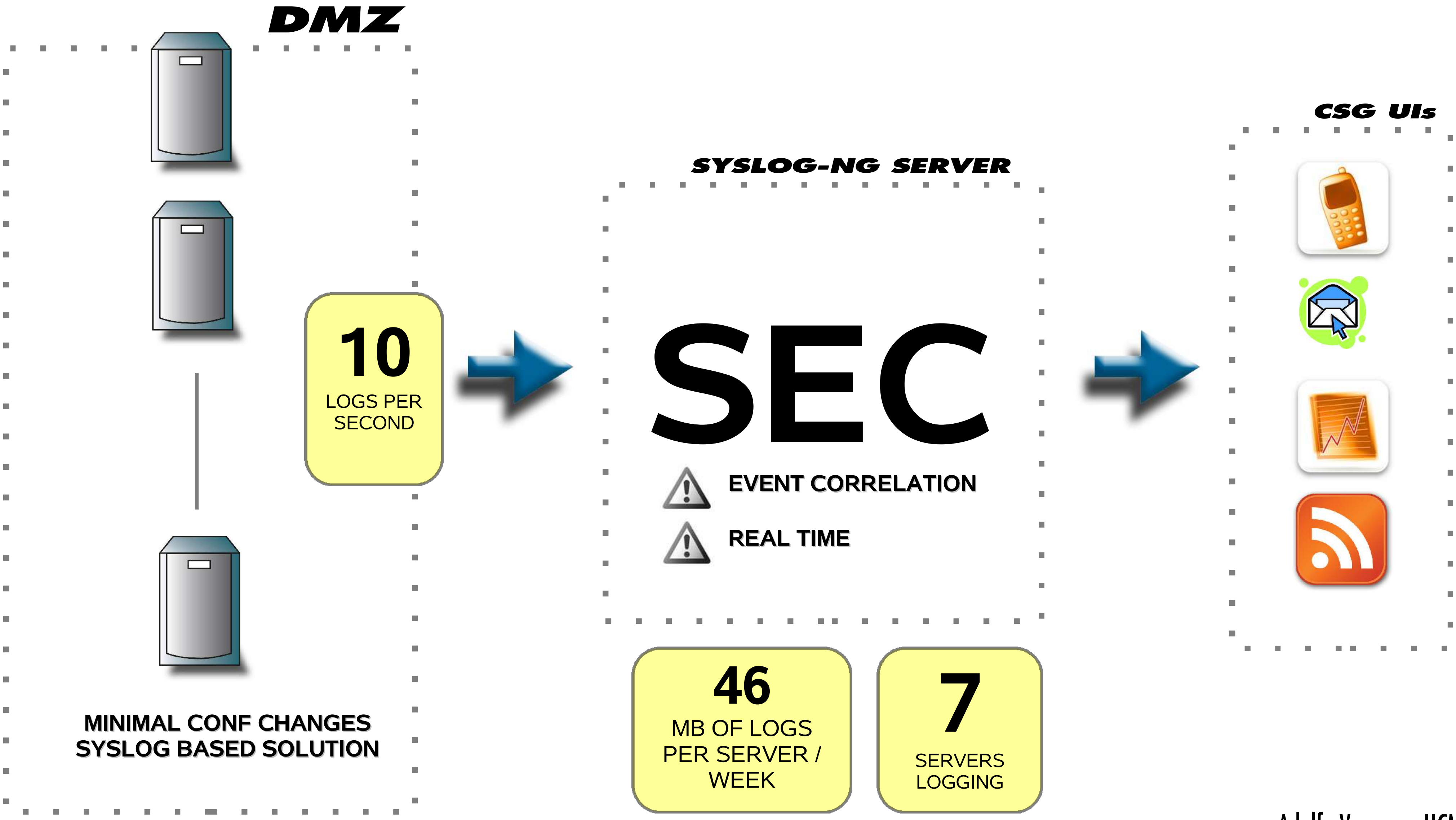
esa



DMZ

10

LOGS PER SECOND

MINIMAL CONF CHANGES
SYSLOG BASED SOLUTION

SYSLOG-NG SERVER

SEC

⚠ EVENT CORRELATION

⚠ REAL TIME

46

MB OF LOGS PER SERVER / WEEK

7

SERVERS LOGGING

CSG UIs

## ARCHITECTURE OF PROPOSED SOLUTION

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### SYSLOG SERVER

SEC

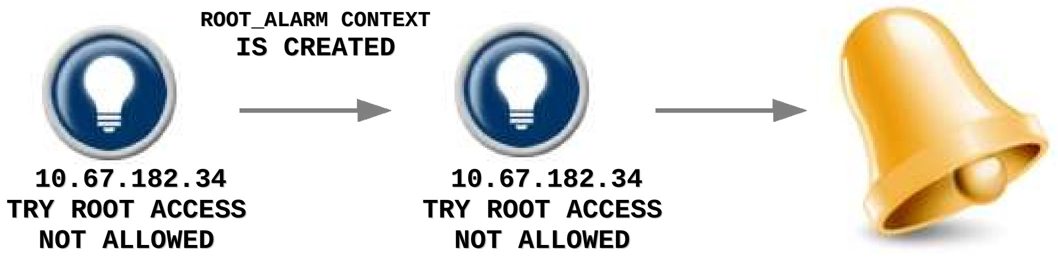
### SEC FEATURES

- Same service on the same machine (root access)
- Several services on the same machine (security scanners)
- Several machines on the same or different services (Denial of Service)

### SEC RULE EXAMPLE

```
type=Single
ptype=SubStr
pattern=sciwww02
action=shellcmd echo llegando
```

### CONTEXTS: SEC MAIN NEW CONCEPT


ROOT_ALARM CONTEXT
IS CREATED

10.67.182.34
TRY ROOT ACCESS
NOT ALLOWED

10.67.182.34
TRY ROOT ACCESS
NOT ALLOWED

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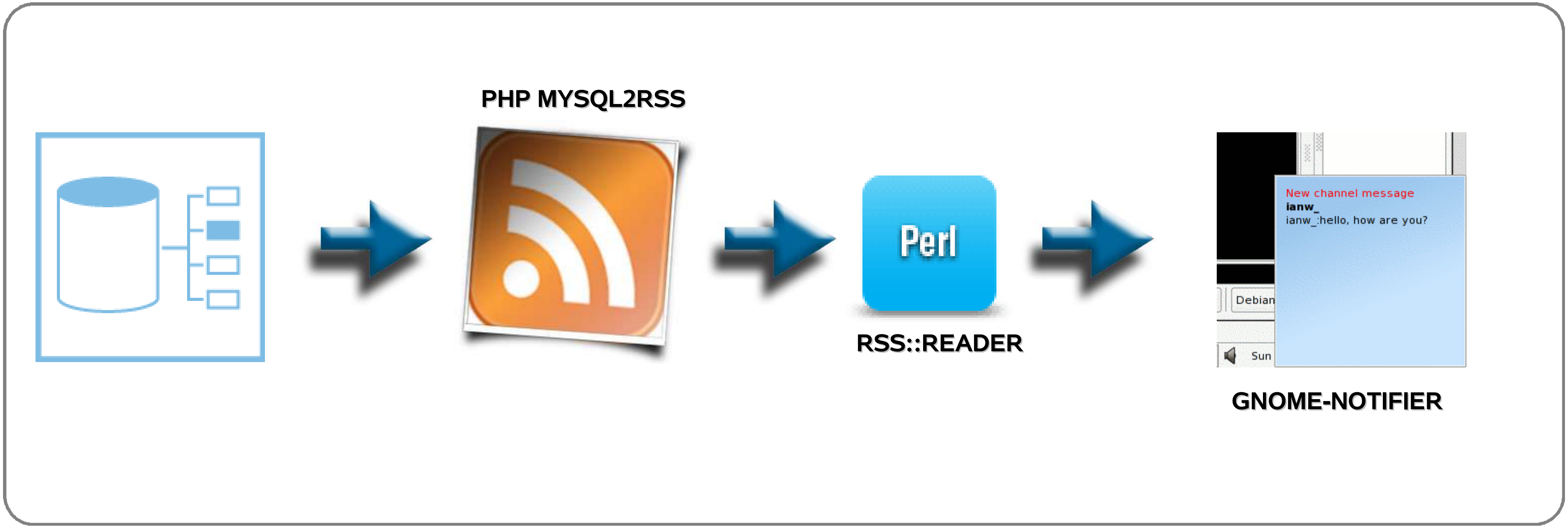
SIMPLE EVENT CORRELATION

## POP-UP UI



PHP MYSQL2RSS

RSS::READER

GNOME-NOTIFIER

New channel message
**ianw_**
ianw_:hello, how are you?

## USER INTERFACES

## THE OLD DAYS...

Bryan Sullivan (left) checking spacecraft command data received via a teletype tape from mission control while Ron Hicks makes entries in the computer log book during the Apollo 7 mission